This listing of claims will replace all prior versions, and listings, of claims in the application

Listing of claims:

Claims 1-55 (Cancelled)

56. (currently amended) A method for the proliferation and delivery of anaerobic cells,

tissue cultures and/or microorganisms including the steps of:

(a) disposing an inoculum in an anaerobic inoculation chamber:

(b) disposing a growth medium for the inoculum in an anaerobic proliferation chamber,

said inoculation chamber being exterior of said proliferation chamber, said

proliferation chamber being [which is] separated from the inoculation chamber by

an openable separating means;

(c) storing the inoculum and uninoculated growth medium separated;

(d) opening the separating means to inoculate the growth medium;

(e) allowing the cells, tissue cultures and/or microorganisms to proliferate under

anaerobic conditions in the proliferation chamber to form a proliferated culture; and

(f) dispensing the proliferated culture from the proliferation chamber,

the method being characterised in that the step of opening the separating means takes  $% \left\{ 1,2,\ldots ,n\right\}$ 

place without compromising the anaerobiosis of the inside of the chambers, and in that

the steps of disposing, storing, inoculating, opening, and proliferation take place under

Appl. No.: 10/521,679

anaerobic and aseptical conditions.

300 South Wacker Drive Chicago, Illinois 60606 57. (previously presented) A method according to claim 56 wherein the inoculum is

provided in a form which is stable and viable beyond the normal life-span of a

conventional culture in a closed container.

58. (previously presented) A method according to claim 56 which includes the further

step of rendering the separating means and inside of the proliferation chamber sterile

prior to the step of disposing the inoculum and growth medium in the respective

chambers

59. (previously presented) A method according to claim 56 which includes the further

step of controlling and adjusting proliferation conditions of the inoculated growth

medium

60. (currently amended) A unitary disposable and portable anaerobic cell, tissue and/or

microorganism proliferation and delivery apparatus comprising at least one anaerobic

proliferation chamber for containing a growth medium; at least one anaerobic

inoculation chamber for containing an inoculum, said inoculation chamber being

exterior of said proliferation chamber; and means for separating the proliferation and

inoculation chambers, the separating means being openable to connect the insides of

the chambers to each other, without compromising the anaerobiosis of the inside of

the chambers, to inoculate the growth medium with the inoculum, to allow

proliferation of the said cell, tissue and/or microorganism under anaerobic and aseptic

Appl. No.: 10/521.679

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conditions, wherein the inoculum is provided in a form which is stable and viable

beyond the normal life-span of a conventional culture in a closed container.

61. (previously presented) Apparatus according to claim 60, wherein the arrangement

is such that the inoculum and growth medium are stored and transported separated

from each other in the apparatus, until such time as a proliferated culture is to be

applied, whereupon the growth medium is inoculated and proliferation allowed to

take place, whereafter the proliferated culture is dispensed from the apparatus.

62. (previously presented) Apparatus according to claim 60 wherein the separating

means and inside of the proliferation chamber are rendered sterile prior to

inoculation.

63. (cancelled)

64. (previously presented) Apparatus according to claim 60 which is totally enclosed

and hermetically sealed.

65. (previously presented) Apparatus according to claim 60 wherein the chambers are

connected to each other via a passage.

66. (previously presented) Apparatus according to claim 65 wherein the separating

means is in the form of a septum.

Appl. No.: 10/521,679

67. (previously presented) Apparatus according to claim 66 wherein the opening means

is in the form of a spike for piercing the septum.

68. (previously presented) Apparatus according to claim 67 wherein the inoculation

chamber is defined by a vial-type container having a mouth which is connected to one

end of the passage.

69. (previously presented) Apparatus according to claim 68 wherein the said septum

covers the said mouth.

70. (previously presented) Apparatus according to claim 68 wherein the spike is

mounted in the passage directed at the septum, and wherein the inoculation chamber

is connected to the said one end of the passage via advancement means, the

arrangement being further such that, in use, the inoculation chamber is advanced

inwardly towards the spike, until the spike pierces the septum.

71. (currently amended) Apparatus according to any one of claims claim 68 wherein

the vial-type container is flexible, the arrangement being such that, in use, the

inoculation chamber is compressed after the septum has been opened to inoculate the

growth medium.

72. (currently amended) Apparatus according to any one of claims claim 66 wherein

the apparatus is provided with urging means for urging the inoculum into the

proliferation chamber after the septum has been opened to inoculate the growth

medium

73. (currently amended) Apparatus according to any one of claims claim 66 wherein

there is a pressure differentiation between the two chambers causing the inoculum to

flow into the proliferation chamber after the septum has been opened to inoculate the

growth medium.

74. (previously presented) Apparatus according to claim 60 which is provided with a

port for connecting to a dosing or application means.

75. (previously presented) Apparatus according to claim 74 wherein the arrangement is

such that pressure, which builds up in the proliferation chamber during the anaerobic

cultivation of the microorganism, urges the proliferated culture through the said port.

76. (previously presented) Apparatus according to claim 60 wherein the proliferation

chamber is defined or provided by a flexible infusion bag type container.

77. (previously presented) Apparatus according to claim 60 wherein the proliferation

chamber is in the form of a "carboy"- type container.

78. (currently amended) Apparatus according to claim 60 which includes additional

Appl. No.: 10/521,679

proliferation or inoculation chambers connectable to the other chambers.